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(54) **ON-LINE MONITORING SYSTEM FOR RING TYPE LAN**

replaced to the slot for monitoring at the node device 7.

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(57) Abstract:

PURPOSE: To monitor communication between terminals at an arbitrary position on a ring by providing a slot for monitoring to a node device housing a terminal to be monitored separately from a slot used for inter-terminal communication.

CONSTITUTION: Node devices 7 and 8 are formed in such ways that they can replace contents of received slots on slots for monitoring. When terminals-A and -B make communication with each other, the transmitting data of the terminal-A are multiplexed to a prescribed slot for communication by means of the node device 7. Then the transmitting data pass through and are monitored by a node device 6 for monitoring also before the data are inputted to a node device 8 incorporating the terminal-B and the monitored content is outputted to a monitoring device 5. Then the content of the above-mentioned slot for communication is outputted to the terminal-B as receiving data and the slot is rewritten by the transmitting data from the terminal-B at the node device 8. The data are outputted to the terminal-A as receiving data and, at the same time,

